

TWO-SHAFT HINGE MECHANISM ENABLING HARNESS WIRINGABSTRACT

~~To provide two-shaft~~Two-shaft hinge mechanism components enabling harness wiring, ~~which are configured~~provided to realize durability, reduction in size and weight and a mechanism to restrict rotation, in cellular phones, notebook computers and remote controllers required to have ~~more reduced~~a smaller size ~~and, less weight and new functions.~~

{Solution}—Rotation shaft ~~11~~ and opening/closing shaft ~~12~~ are inserted into coil spring ~~5, 17~~, concave and convex cams, and a caulking component ~~and the like~~, to assemble a rotation shaft torque unit and an opening/closing torque unit, ~~and the unit is.~~ The units are attached to a hinge housing ~~9~~ to constitute the two-shaft hinge. The opening/closing torque unit is disposed either ~~11~~on the left or right side of the hinge housing, ~~and a.~~ A pipe-like shaft with a hollow is employed as rotation shaft ~~11~~, whereby harness ~~(thin cable)~~ wiring is provided easily. ~~the~~The torque unit is configured independently from the rotation shaft and the opening/closing shaft, ~~so that~~ to achieve generation of a stable torque and click, improvement of durability, easy assembly of the components, reduction of size and weight by reducing the number of components, and ensuring of a space by disposing the components in a concentrated manner ~~are achieved.~~